

Refine Search

Search Results -

Terms	Documents
L3 and traveling adj salesman adj problem	17

Database:
US Pre-Grant Publication Full-Text Database
US Patents Full-Text Database
US OCR Full-Text Database
EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

Search: L4

Refine Search

Recall Text  **Clear**  **Interrupt**

Search History

DATE: Tuesday, July 27, 2004 [Printable Copy](#) [Create Case](#)

<u>Set Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
side by side			result set
<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=NO; OP=OR</i>			
<u>L4</u>	L3 and traveling adj salesman adj problem	17	<u>L4</u>
<u>L3</u>	706/13.ccls.	220	<u>L3</u>
<u>L2</u>	760/13.ccls.	0	<u>L2</u>
<u>L1</u>	20030084011	2	<u>L1</u>

END OF SEARCH HISTORY

Hit List



Search Results - Record(s) 1 through 17 of 17 returned.

1. Document ID: US 20040044633 A1

Using default format because multiple data bases are involved.

L4: Entry 1 of 17

File: PGPB

Mar 4, 2004

PGPUB-DOCUMENT-NUMBER: 20040044633

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040044633 A1

TITLE: System and method for solving an optimization problem using a neural-network-based genetic algorithm technique

PUBLICATION-DATE: March 4, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Chen, Thomas W.	Ft. Collins	CO	US	

US-CL-CURRENT: 706/13; 706/21, 706/25

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KWMC](#) [Drawn D](#)

2. Document ID: US 20030093391 A1

L4: Entry 2 of 17

File: PGPB

May 15, 2003

PGPUB-DOCUMENT-NUMBER: 20030093391

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030093391 A1

TITLE: Combinatorial fitness function circuit

PUBLICATION-DATE: May 15, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Shackleford, J. Barry	Portola Valley	CA	US	

US-CL-CURRENT: 706/13

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KWMC](#) [Drawn D](#)

3. Document ID: US 20030084011 A1

L4: Entry 3 of 17

File: PGPB

May 1, 2003

PGPUB-DOCUMENT-NUMBER: 20030084011

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030084011 A1

TITLE: Methods for solving the traveling salesman problem

PUBLICATION-DATE: May 1, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Shetty, Ravindra K.	Bangalore	IN		

US-CL-CURRENT: 706/13

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawn D.
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 4. Document ID: US 20010037346 A1

L4: Entry 4 of 17

File: PGPB

Nov 1, 2001

PGPUB-DOCUMENT-NUMBER: 20010037346

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010037346 A1

TITLE: Extensible markup language genetic algorithm

PUBLICATION-DATE: November 1, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Johnson, Judith A.	Lawrenceville	NJ	US	

US-CL-CURRENT: 715/513; 706/13, 707/104.1, 715/514, 715/522

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawn D.
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 5. Document ID: US 6490566 B1

L4: Entry 5 of 17

File: USPT

Dec 3, 2002

US-PAT-NO: 6490566

DOCUMENT-IDENTIFIER: US 6490566 B1

TITLE: Graph-based schedule builder for tightly constrained scheduling problems

DATE-ISSUED: December 3, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Schmidt; Craig W.	Somerville	MA		

US-CL-CURRENT: 705/8; 700/100, 700/104, 705/9, 706/13, 706/62[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KIMC](#) [Drawn D.](#)

 6. Document ID: US 6477519 B1

L4: Entry 6 of 17

File: USPT

Nov 5, 2002

US-PAT-NO: 6477519

DOCUMENT-IDENTIFIER: US 6477519 B1

TITLE: Cellular array for implementing the set merging function

DATE-ISSUED: November 5, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Shackleford; J. Barry	Portola Valley	CA		

US-CL-CURRENT: 706/45; 706/13, 716/2, 716/9[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KIMC](#) [Drawn D.](#)

 7. Document ID: US 6363368 B1

L4: Entry 7 of 17

File: USPT

Mar 26, 2002

US-PAT-NO: 6363368

DOCUMENT-IDENTIFIER: US 6363368 B1

TITLE: Optimum solution search method and optimum solution search apparatus as well as storage medium in which optimum solution search program is stored

DATE-ISSUED: March 26, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Shinagawa; Akio	Kawasaki			JP

US-CL-CURRENT: 706/13[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KIMC](#) [Drawn D.](#)

 8. Document ID: US 6185547 B1

L4: Entry 8 of 17

File: USPT

Feb 6, 2001

US-PAT-NO: 6185547

DOCUMENT-IDENTIFIER: US 6185547 B1

TITLE: Fitness function circuit

DATE-ISSUED: February 6, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Shackleford; J. Barry	Tokyo			JP
Okushi; Etsuko	Tokyo			JP
Yasuda; Mitsuhiro	Tokyo			JP
Iwamoto; Takashi	Tokyo			JP

US-CL-CURRENT: 706/13; 706/45, 707/1, 707/102, 707/6[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequence](#) [Attachments](#) [Claims](#) [KMC](#) [Drawn D](#) 9. Document ID: US 6052678 A

L4: Entry 9 of 17

File: USPT

Apr 18, 2000

US-PAT-NO: 6052678

DOCUMENT-IDENTIFIER: US 6052678 A

**** See image for Certificate of Correction ****

TITLE: Problem solving operation apparatus using a state transition

DATE-ISSUED: April 18, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Itoh; Hiroyasu	Kawasaki			JP
Shinagawa; Akio	Kawasaki			JP
Nishimura; Toshihiro	Kawasaki			JP
Okada; Hiroyuki	Kawasaki			JP
Adachi; Nobue	Kawasaki			JP
Ohi; Hajime	Tokyo			JP

US-CL-CURRENT: 706/13; 706/20, 706/45[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequence](#) [Attachments](#) [Claims](#) [KMC](#) [Drawn D](#) 10. Document ID: US 5970487 A

L4: Entry 10 of 17

File: USPT

Oct 19, 1999

US-PAT-NO: 5970487

DOCUMENT-IDENTIFIER: US 5970487 A

TITLE: Genetic algorithm machine and its production method, and method for executing a genetic algorithm

DATE-ISSUED: October 19, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Shackleford; J. Barry	Tokyo			JP
Okushi; Etsuko	Tokyo			JP
Yasuda; Mitsuhiro	Tokyo			JP
Iwamoto; Takashi	Tokyo			JP

US-CL-CURRENT: 707/6; 706/13, 706/45, 707/1, 707/102[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Searches](#) | [Attachments](#) | [Claims](#) | [KWMC](#) | [Drawn D.](#)

 11. Document ID: US 5848402 A

L4: Entry 11 of 17

File: USPT

Dec 8, 1998

US-PAT-NO: 5848402

DOCUMENT-IDENTIFIER: US 5848402 A

TITLE: Universal system for artificial intelligence based learning, categorization, and optimization

DATE-ISSUED: December 8, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Pao; Yoh-Han	Cleveland Heights	OH		
Yip; Pui-Chiu	Euclid	OH		

US-CL-CURRENT: 706/13; 706/14[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Searches](#) | [Attachments](#) | [Claims](#) | [KWMC](#) | [Drawn D.](#)

 12. Document ID: US 5819244 A

L4: Entry 12 of 17

File: USPT

Oct 6, 1998

US-PAT-NO: 5819244

DOCUMENT-IDENTIFIER: US 5819244 A

TITLE: Adaptive computing systems, computer readable memories and processes employing hyperlinear chromosomes

DATE-ISSUED: October 6, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Smith; Brian L.	Sunnyvale	CA		

US-CL-CURRENT: 706/13; 706/10, 706/14

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequence](#) | [Attachments](#) | [Claims](#) | [KOMC](#) | [Drawn D](#)

13. Document ID: US 5651098 A

L4: Entry 13 of 17

File: USPT

Jul 22, 1997

US-PAT-NO: 5651098

DOCUMENT-IDENTIFIER: US 5651098 A

TITLE: Planning method and system

DATE-ISSUED: July 22, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Inoue; Haruki	Katsuta			JP
Mizutani; Mayumi	Hitachi			JP
Yoshida; Hideo	Takahagi			JP
Onizawa; Hitoshi	Hitachi			JP
Nakamura; Kenichi	Hitachiota			JP
Hamaguchi; Yukio	Hitachi			JP
Shiozawa; Masami	Hitachi			JP

US-CL-CURRENT: 706/13; 703/1, 706/922, 716/1

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequence](#) | [Attachments](#) | [Claims](#) | [KOMC](#) | [Drawn D](#)

14. Document ID: US 5581657 A

L4: Entry 14 of 17

File: USPT

Dec 3, 1996

US-PAT-NO: 5581657

DOCUMENT-IDENTIFIER: US 5581657 A

TITLE: System for integrating multiple genetic algorithm applications

DATE-ISSUED: December 3, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lyon; Bruce C.	Victor	NY		

US-CL-CURRENT: 706/13[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KWMC](#) | [Drawn D](#) 15. Document ID: US 5255345 A

L4: Entry 15 of 17

File: USPT

Oct 19, 1993

US-PAT-NO: 5255345

DOCUMENT-IDENTIFIER: US 5255345 A

** See image for Certificate of Correction **

TITLE: Genetic algorithm

DATE-ISSUED: October 19, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Shaefer; Craig G.	Charlestown	MA		

US-CL-CURRENT: 706/13[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KWMC](#) | [Drawn D](#) 16. Document ID: US 5222192 A

L4: Entry 16 of 17

File: USPT

Jun 22, 1993

US-PAT-NO: 5222192

DOCUMENT-IDENTIFIER: US 5222192 A

TITLE: Optimization techniques using genetic algorithms

DATE-ISSUED: June 22, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Shaefer; Craig G.	Charlestown	MA		

US-CL-CURRENT: 706/13[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KWMC](#) | [Drawn D](#) 17. Document ID: US 4935877 A

L4: Entry 17 of 17

File: USPT

Jun 19, 1990

US-PAT-NO: 4935877

DOCUMENT-IDENTIFIER: US 4935877 A

TITLE: Non-linear genetic algorithms for solving problems

DATE-ISSUED: June 19, 1990

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Koza; John R.	Las Vegas	NV	89109	

US-CL-CURRENT: 706/13; 706/922

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sentences](#) [Attachments](#) [Claims](#) [KUDC](#) [Drawn D](#)

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Terms	Documents
L3 and traveling adj salesman adj problem	17

Display Format: - [Change Format](#)

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Terms	Documents
L5 and visit\$4 and location\$2 and route and distance and time	4

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US OCR Full-Text Database
EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

Search:

L6

[Refine Search](#)

Recall Text

Clear

Interrupt

Search History

DATE: Tuesday, July 27, 2004 [Printable Copy](#) [Create Case](#)

Set Name Query

side by side

Hit Count Set Name

result set

DB=PGP,B.USPT.USOC.EPAR.JPAR.DWPLTD, RD: PLUR=NO: OP=OR

<u>L6</u>	L5 and visit\$4 and location\$2 and route and distance and time	4	<u>L6</u>
<u>L5</u>	L4 and genetic adj algorithm	17	<u>L5</u>
<u>L4</u>	L3 and traveling adj salesman adj problem	17	<u>L4</u>
<u>L3</u>	706/13.cccls.	220	<u>L3</u>
<u>L2</u>	760/13.cccls.	0	<u>L2</u>
<u>L1</u>	20030084011	2	<u>L1</u>

END OF SEARCH HISTORY

Hit List

Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs
Generate OACS				

Search Results - Record(s) 1 through 4 of 4 returned.

1. Document ID: US 20030093391 A1

Using default format because multiple data bases are involved.

L6: Entry 1 of 4

File: PGPB

May 15, 2003

PGPUB-DOCUMENT-NUMBER: 20030093391

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030093391 A1

TITLE: Combinatorial fitness function circuit

PUBLICATION-DATE: May 15, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Shackleford, J. Barry	Portola Valley	CA	US	

US-CL-CURRENT: 706/13

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KJWC	Drawn	Def
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2. Document ID: US 20030084011 A1

L6: Entry 2 of 4

File: PGPB

May 1, 2003

PGPUB-DOCUMENT-NUMBER: 20030084011

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030084011 A1

TITLE: Methods for solving the traveling salesman problem

PUBLICATION-DATE: May 1, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Shetty, Ravindra K.	Bangalore		IN	

US-CL-CURRENT: 706/13

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KJWC	Drawn	Def
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3. Document ID: US 6363368 B1

L6: Entry 3 of 4

File: USPT

Mar 26, 2002

US-PAT-NO: 6363368

DOCUMENT-IDENTIFIER: US 6363368 B1

TITLE: Optimum solution search method and optimum solution search apparatus as well as storage medium in which optimum solution search program is stored

DATE-ISSUED: March 26, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Shinagawa; Akio	Kawasaki			JP

US-CL-CURRENT: 706/13

Full	Title	Citation	Front	Review	Classification	Date	Reference	Searches	Attachments	Claims	KOMC	Drawn D.
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 4. Document ID: US 6052678 A

L6: Entry 4 of 4

File: USPT

Apr 18, 2000

US-PAT-NO: 6052678

DOCUMENT-IDENTIFIER: US 6052678 A

** See image for Certificate of Correction **

TITLE: Problem solving operation apparatus using a state transition

DATE-ISSUED: April 18, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Itoh; Hiroyasu	Kawasaki			JP
Shinagawa; Akio	Kawasaki			JP
Nishimura; Toshihiro	Kawasaki			JP
Okada; Hiroyuki	Kawasaki			JP
Adachi; Nobue	Kawasaki			JP
Ohi; Hajime	Tokyo			JP

US-CL-CURRENT: 706/13; 706/20, 706/45

Full	Title	Citation	Front	Review	Classification	Date	Reference	Searches	Attachments	Claims	KOMC	Drawn D.
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<input type="button" value="Clear"/>	<input type="button" value="Generate Collection"/>	<input type="button" value="Print"/>	<input type="button" value="Fwd Refs"/>	<input type="button" value="Bkwd Refs"/>	<input type="button" value="Generate OACs"/>
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Terms	Documents
L5 and visit\$4 and location\$2 and route and distance and time	4

Display Format:

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Refine Search

Search Results -

Terms	Documents
L3 and (traveling adj salesman or traveling adj salesperson) and genetic adj algorithm and visit\$4 and location\$2 and route and distance and time	6

Database: US USPTO Full Text Database
EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

Search:

L7

Refine Search

Recall Text

Clear

Interrupt

Search History

DATE: **Tuesday, July 27, 2004** [Printable Copy](#) [Create Case](#)

Set
Name Query
side by
side

DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=NO; OP=OR

L7 L3 and (traveling adj salesman or traveling adj salesperson) and genetic adj algorithm and visit\$4 and location\$2 and route and distance and time

L6 L5 and visit\$4 and location\$2 and route and distance and time

L5 L4 and genetic adj algorithm

L4 L3 and traveling adj salesman adj problem

L3 706/13.cc1s.

L2 760/13.ccls.

L1 20030084011

<u>Hit</u> <u>Count</u>	<u>Set</u> <u>Name</u> result set
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END OF SEARCH HISTORY

Hit List

Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs
Generate OACS				

Search Results - Record(s) 1 through 6 of 6 returned.

1. Document ID: US 20030093391 A1

Using default format because multiple data bases are involved.

L7: Entry 1 of 6

File: PGPB

May 15, 2003

PGPUB-DOCUMENT-NUMBER: 20030093391

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030093391 A1

TITLE: Combinatorial fitness function circuit

PUBLICATION-DATE: May 15, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Shackleford, J. Barry	Portola Valley	CA	US	

US-CL-CURRENT: 706/13

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Drawn De
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2. Document ID: US 20030084011 A1

L7: Entry 2 of 6

File: PGPB

May 1, 2003

PGPUB-DOCUMENT-NUMBER: 20030084011

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030084011 A1

TITLE: Methods for solving the traveling salesman problem

PUBLICATION-DATE: May 1, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Shetty, Ravindra K.	Bangalore		IN	

US-CL-CURRENT: 706/13

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Drawn De
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3. Document ID: US 20010011258 A1

L7: Entry 3 of 6

File: PGPB

Aug 2, 2001

PGPUB-DOCUMENT-NUMBER: 20010011258

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010011258 A1

TITLE: OPTIMUM SOLUTION SEARCH METHOD AND OPTIMUM SOLUTION SEARCH APPARATUS AS WELL AS STORAGE MEDIUM IN WHICH OPTIMUM SOLUTION SEARCH PROGRAM IS STORED

PUBLICATION-DATE: August 2, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
SHINAGAWA, AKIO	KAWASAKI-SHI		JP	

US-CL-CURRENT: 706/13

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMPC	Drawn D
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 4. Document ID: US 6363368 B1

L7: Entry 4 of 6

File: USPT

Mar 26, 2002

US-PAT-NO: 6363368

DOCUMENT-IDENTIFIER: US 6363368 B1

TITLE: Optimum solution search method and optimum solution search apparatus as well as storage medium in which optimum solution search program is stored

DATE-ISSUED: March 26, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Shinagawa; Akio	Kawasaki			JP

US-CL-CURRENT: 706/13

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMPC	Drawn D
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 5. Document ID: US 6327582 B1

L7: Entry 5 of 6

File: USPT

Dec 4, 2001

US-PAT-NO: 6327582

DOCUMENT-IDENTIFIER: US 6327582 B1

TITLE: Method and system for genetic programming

DATE-ISSUED: December 4, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Worzel; William P.	Milan	MI	48160	

US-CL-CURRENT: 706/13
[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | **Searches** | [Attachments](#) | [Claims](#) | [KOMC](#) | [Drawn D](#)
 6. Document ID: US 6052678 A

L7: Entry 6 of 6

File: USPT

Apr 18, 2000

US-PAT-NO: 6052678

DOCUMENT-IDENTIFIER: US 6052678 A

**** See image for Certificate of Correction ****

TITLE: Problem solving operation apparatus using a state transition

DATE-ISSUED: April 18, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Itoh; Hiroyasu	Kawasaki			JP
Shinagawa; Akio	Kawasaki			JP
Nishimura; Toshihiro	Kawasaki			JP
Okada; Hiroyuki	Kawasaki			JP
Adachi; Nobue	Kawasaki			JP
Ohi; Hajime	Tokyo			JP

US-CL-CURRENT: 706/13; 706/20, 706/45
[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | **Searches** | [Attachments](#) | [Claims](#) | [KOMC](#) | [Drawn D](#)
[Clear](#) | [Generate Collection](#) | [Print](#) | [Fwd Refs](#) | [Bkwd Refs](#) | [Generate OACS](#)

Terms	Documents
L3 and (traveling adj salesman or traveling adj salesperson) and genetic adj algorithm and visit\$4 and location\$2 and route and distance and time	6

Display Format: [Change Format](#)
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Refine Search

Search Results -

Terms	Documents
(traveling adj salesman or traveling adj salesperson) and genetic adj algorithm and visit\$4 and location\$2 and route and distance and time and fitness and chromosomes	7

Database:

US Pre-Grant Publication Full-Text Database
 US Patents Full-Text Database
 US OCR Full-Text Database
 EPO Abstracts Database
 JPO Abstracts Database
 Derwent World Patents Index
 IBM Technical Disclosure Bulletins

Search:

L9

Search History

DATE: Tuesday, July 27, 2004 [Printable Copy](#) [Create Case](#)

<u>Set</u> <u>Name</u>	<u>Query</u>	<u>Hit</u> <u>Count</u>	<u>Set</u> <u>Name</u> result set
side by side			
DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=NO; OP=OR			
L9	(traveling adj salesman or traveling adj salesperson) and genetic adj algorithm and visit\$4 and location\$2 and route and distance and time and fitness and chromosomes	7	L9
L8	L7 and fitness and chromosomes	5	L8
L7	L3 and (traveling adj salesman or traveling adj salesperson) and genetic adj algorithm and visit\$4 and location\$2 and route and distance and time	6	L7
L6	L5 and visit\$4 and location\$2 and route and distance and time	4	L6
L5	L4 and genetic adj algorithm	17	L5
L4	L3 and traveling adj salesman adj problem	17	L4
L3	706/13.ccls.	220	L3
L2	760/13.ccls.	0	L2
L1	20030084011	2	L1

END OF SEARCH HISTORY

Hit List

Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs
Generate OACS				

Search Results - Record(s) 1 through 5 of 5 returned.

1. Document ID: US 20030093391 A1

Using default format because multiple data bases are involved.

L8: Entry 1 of 5

File: PGPB

May 15, 2003

PGPUB-DOCUMENT-NUMBER: 20030093391

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030093391 A1

TITLE: Combinatorial fitness function circuit

PUBLICATION-DATE: May 15, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Shackleford, J. Barry	Portola Valley	CA	US	

US-CL-CURRENT: 706/13

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC	Drawn D
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2. Document ID: US 20030084011 A1

L8: Entry 2 of 5

File: PGPB

May 1, 2003

PGPUB-DOCUMENT-NUMBER: 20030084011

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030084011 A1

TITLE: Methods for solving the traveling salesman problem

PUBLICATION-DATE: May 1, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Shetty, Ravindra K.	Bangalore		IN	

US-CL-CURRENT: 706/13

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC	Drawn D
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3. Document ID: US 20010011258 A1

L8: Entry 3 of 5

File: PGPB

Aug 2, 2001

PGPUB-DOCUMENT-NUMBER: 20010011258

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010011258 A1

TITLE: OPTIMUM SOLUTION SEARCH METHOD AND OPTIMUM SOLUTION SEARCH APPARATUS AS WELL AS STORAGE MEDIUM IN WHICH OPTIMUM SOLUTION SEARCH PROGRAM IS STORED

PUBLICATION-DATE: August 2, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
SHINAGAWA, AKIO	KAWASAKI-SHI		JP	

US-CL-CURRENT: 706/13

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawn D.
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 4. Document ID: US 6363368 B1

L8: Entry 4 of 5

File: USPT

Mar 26, 2002

US-PAT-NO: 6363368

DOCUMENT-IDENTIFIER: US 6363368 B1

TITLE: Optimum solution search method and optimum solution search apparatus as well as storage medium in which optimum solution search program is stored

DATE-ISSUED: March 26, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Shinagawa; Akio	Kawasaki			JP

US-CL-CURRENT: 706/13

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawn D.
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 5. Document ID: US 6052678 A

L8: Entry 5 of 5

File: USPT

Apr 18, 2000

US-PAT-NO: 6052678

DOCUMENT-IDENTIFIER: US 6052678 A

** See image for Certificate of Correction **

TITLE: Problem solving operation apparatus using a state transition

DATE-ISSUED: April 18, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Itoh; Hiroyasu	Kawasaki			JP
Shinagawa; Akio	Kawasaki			JP
Nishimura; Toshihiro	Kawasaki			JP
Okada; Hiroyuki	Kawasaki			JP
Adachi; Nobue	Kawasaki			JP
Ohi; Hajime	Tokyo			JP

US-CL-CURRENT: 706/13; 706/20, 706/45[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Searches](#) [Patents](#) [Claims](#) [KMC](#) [Draw](#) [D](#)[Clear](#) [Generate Collection](#) [Print](#) [Fwd Refs](#) [Bkwd Refs](#) [Generate OACS](#)

Terms	Documents
L7 and fitness and chromosomes	5

Display Format: [Change Format](#)[Previous Page](#) [Next Page](#) [Go to Doc#](#)

Refine Search

Search Results -

Terms	Documents
(traveling adj salesman or traveling adj salesperson) and genetic adj algorithm and visit\$4 and location\$2 and route and distance and time and fitness and chromosomes	7

Database:

- US Pre-Grant Publication Full-Text Database
- US Patents Full-Text Database
- US OCR Full-Text Database
- EPO Abstracts Database
- JPO Abstracts Database
- Derwent World Patents Index
- IBM Technical Disclosure Bulletins

Search:

L9

Refine Search

Recall Text

Clear

Interrupt

Search History

DATE: Tuesday, July 27, 2004 [Printable Copy](#) [Create Case](#)

Set	Name	Query	Set	Hit	Name
				Count	result set
side by side					
		DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=NO; OP=OR			
L9		(traveling adj salesman or traveling adj salesperson) and genetic adj algorithm and visit\$4 and location\$2 and route and distance and time and fitness and chromosomes	7	L9	
L8		L7 and fitness and chromosomes	5	L8	
L7		L3 and (traveling adj salesman or traveling adj salesperson) and genetic adj algorithm and visit\$4 and location\$2 and route and distance and time	6	L7	
L6		L5 and visit\$4 and location\$2 and route and distance and time	4	L6	
L5		L4 and genetic adj algorithm	17	L5	
L4		L3 and traveling adj salesman adj problem	17	L4	
L3		706/13.ccls.	220	L3	
L2		760/13.ccls.	0	L2	
L1		20030084011	2	L1	

END OF SEARCH HISTORY

Hit List

Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs
Generate OACS				

Search Results - Record(s) 1 through 7 of 7 returned.

1. Document ID: US 20040102863 A1

Using default format because multiple data bases are involved.

L9: Entry 1 of 7

File: PGPB

May 27, 2004

PGPUB-DOCUMENT-NUMBER: 20040102863

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040102863 A1

TITLE: Method of determining movement sequence, alignment apparatus, method and apparatus of designing optical system, and medium in which program realizing the designing method

PUBLICATION-DATE: May 27, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Yoshida, Koji	Kanagawa		JP	
Ono, Isao	Kanagawa		JP	
Tatsuzawa, Yoshihiro	Kanagawa		JP	
Kobayashi, Shigenobu	Tokyo		JP	

US-CL-CURRENT: 700/97

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC	Drawn D
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2. Document ID: US 20030093391 A1

L9: Entry 2 of 7

File: PGPB

May 15, 2003

PGPUB-DOCUMENT-NUMBER: 20030093391

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030093391 A1

TITLE: Combinatorial fitness function circuit

PUBLICATION-DATE: May 15, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Shackleford, J. Barry	Portola Valley	CA	US	

US-CL-CURRENT: 706/13

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawn D.
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 3. Document ID: US 20030084011 A1

L9: Entry 3 of 7

File: PGPB

May 1, 2003

PGPUB-DOCUMENT-NUMBER: 20030084011

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030084011 A1

TITLE: Methods for solving the traveling salesman problem

PUBLICATION-DATE: May 1, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Shetty, Ravindra K.	Bangalore		IN	

US-CL-CURRENT: 706/13

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawn D.
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 4. Document ID: US 20010053962 A1

L9: Entry 4 of 7

File: PGPB

Dec 20, 2001

PGPUB-DOCUMENT-NUMBER: 20010053962

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010053962 A1

TITLE: Method of determining movement sequence, alignment apparatus, method and apparatus of designing optical system, and medium in which program realizing the designing method

PUBLICATION-DATE: December 20, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Yoshida, Koji	Kanagawa		JP	
Kiyohara, Junya	Kanagawa		JP	
Ono, Isao	Kanagawa		JP	
Tatsuzawa, Yoshihiro	Kanagawa		JP	
Kobayashi, Shigenobu	Tokyo		JP	

US-CL-CURRENT: 702/123

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawn D.
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 5. Document ID: US 20010011258 A1

L9: Entry 5 of 7

File: PGPB

Aug 2, 2001

PGPUB-DOCUMENT-NUMBER: 20010011258

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010011258 A1

TITLE: OPTIMUM SOLUTION SEARCH METHOD AND OPTIMUM SOLUTION SEARCH APPARATUS AS WELL AS STORAGE MEDIUM IN WHICH OPTIMUM SOLUTION SEARCH PROGRAM IS STORED

PUBLICATION-DATE: August 2, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
SHINAGAWA, AKIO	KAWASAKI-SHI		JP	

US-CL-CURRENT: 706/13

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawn D.
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 6. Document ID: US 6363368 B1

L9: Entry 6 of 7

File: USPT

Mar 26, 2002

US-PAT-NO: 6363368

DOCUMENT-IDENTIFIER: US 6363368 B1

TITLE: Optimum solution search method and optimum solution search apparatus as well as storage medium in which optimum solution search program is stored

DATE-ISSUED: March 26, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Shinagawa; Akio	Kawasaki			JP

US-CL-CURRENT: 706/13

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawn D.
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 7. Document ID: US 6052678 A

L9: Entry 7 of 7

File: USPT

Apr 18, 2000

US-PAT-NO: 6052678

DOCUMENT-IDENTIFIER: US 6052678 A

** See image for Certificate of Correction **

TITLE: Problem solving operation apparatus using a state transition

DATE-ISSUED: April 18, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Itoh; Hiroyasu	Kawasaki			JP
Shinagawa; Akio	Kawasaki			JP
Nishimura; Toshihiro	Kawasaki			JP
Okada; Hiroyuki	Kawasaki			JP
Adachi; Nobue	Kawasaki			JP
Ohi; Hajime	Tokyo			JP

US-CL-CURRENT: 706/13; 706/20, 706/45[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Searches](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn D](#)[Clear](#) | [Generate Collection](#) | [Print](#) | [Fwd Refs](#) | [Bkwd Refs](#) | [Generate OACS](#)

Terms	Documents
(traveling adj salesman or traveling adj salesperson) and genetic adj algorithm and visit\$4 and location\$2 and route and distance and time and fitness and chromosomes	7

Display Format: [Previous Page](#) [Next Page](#) [Go to Doc#](#)

Refine Search

Search Results -

Terms	Documents
(traveling adj salesman or traveling adj salesperson) and genetic adj algorithm and visit\$4 and location\$2 and route and distance and time and fitness and chromosomes	7

Database:

US Pre-Grant Publication Full-Text Database
 US Patents Full-Text Database
 US OCR Full-Text Database
 EPO Abstracts Database
 JPO Abstracts Database
 Derwent World Patents Index
 IBM Technical Disclosure Bulletins

Search:

L9

Search History

DATE: Tuesday, July 27, 2004 [Printable Copy](#) [Create Case](#)

Set Name	Query	Set Hit Count	Set Name result set
side by side			
<u>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=NO; OP=OR</u>			
<u>L9</u>	(traveling adj salesman or traveling adj salesperson) and genetic adj algorithm and visit\$4 and location\$2 and route and distance and time and fitness and chromosomes	7	<u>L9</u>
<u>L8</u>	L7 and fitness and chromosomes	5	<u>L8</u>
<u>L7</u>	L3 and (traveling adj salesman or traveling adj salesperson) and genetic adj algorithm and visit\$4 and location\$2 and route and distance and time	6	<u>L7</u>
<u>L6</u>	L5 and visit\$4 and location\$2 and route and distance and time	4	<u>L6</u>
<u>L5</u>	L4 and genetic adj algorithm	17	<u>L5</u>
<u>L4</u>	L3 and traveling adj salesman adj problem	17	<u>L4</u>
<u>L3</u>	706/13.ccls.	220	<u>L3</u>
<u>L2</u>	760/13.ccls.	0	<u>L2</u>
<u>L1</u>	20030084011	2	<u>L1</u>

END OF SEARCH HISTORY